STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/618,852_

Source: _IFWI6_

Date Processed by STIC: _5/19/07_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
>   http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06.

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/618,852

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line **not exceed 72** characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering

The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4 _____ Non-ASCII

The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5 _____ Variable Length

Sequence(s) _____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 _____ Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8 _____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to 223> section, please explain location of **n** or **Xaa**, and which residue n or Xaa represents.

10 _____ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n/Xaa

"n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

RAW SEQUENCE LISTING   DATE: 03/19/2007
PATENT APPLICATION: **US/10/618,852**   TIME: 14:33:19

Input Set : **N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt**
Output Set: **N:\CRF4\03192007\J618852.raw**

```
 3 <110> APPLICANT: INVITROGEN CORPORATION
 5 <120> TITLE OF INVENTION: SUBSCRIPTION BASED SYSTEMS, METHODS AND COMPONENTS FOR
PROVIDING
 6       GENOMIC AND PROTEOMIC PRODUCTS AND SERVICES
 8 <130> FILE REFERENCE: IVGN 334
10 <140> CURRENT APPLICATION NUMBER: 10/618,852
11 <141> CURRENT FILING DATE: 2003-07-15
13 <150> PRIOR APPLICATION NUMBER: 60396241
14 <151> PRIOR FILING DATE: 2002-07-17
16 <160> NUMBER OF SEQ ID NOS: 43
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 15
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Wild-type att site
28 <400> SEQUENCE: 1
29 gctttttat actaa
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 21
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial
37 <220> FEATURE:
38 <223> OTHER INFORMATION: Artificial sequence
40 <400> SEQUENCE: 2
41 caactttttt atacaaagtt g
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 25
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial
49 <220> FEATURE:
50 <223> OTHER INFORMATION: attB1
52 <400> SEQUENCE: 3
53 agcctgcttt tttgtacaaa cttgt
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 233
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial
61 <220> FEATURE:
62 <223> OTHER INFORMATION: attP1
64 <400> SEQUENCE: 4
65 tacaggtcac taataccatc taagtagttg attcatagtg actggatatg ttgtgtttta    60
67 cagtattatg tagtctgttt tttatgcaaa atctaattta atatattgat atttatatca   120
```

Handwritten annotations:
— What is the source of genetic material? = Invalid response
— What is the source of genetic material? = Invalid Response
Does Not Comply Corrected Diskette Needed (pg 7-8)
See item #11 on error summary sheet.
← Same error
← Same error

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Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt
Output Set: N:\CRF4\03192007\J618852.raw

```
69 ttttacgttt ctcgttcagc tttttgtac aaagttggca ttataaaaaa gcattgctca      180
71 tcaatttgtt gcaacgaaca ggtcactatc agtcaaaata aaatcattat ttg            233
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 100
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial
79 <220> FEATURE:
80 <223> OTHER INFORMATION: attL1
82 <400> SEQUENCE: 5
83 caaataatga ttttattttg actgatagtg acctgttcgt tgcaacaaat tgataagcaa       60
85 tgcttttttta taatgccaac tttgtacaaa aaagcaggct                          100
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 125
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: attR1
96 <400> SEQUENCE: 6
97 acaagtttgt acaaaaaagc tgaacgagaa acgtaaaatg atataaatat caatatatta       60
99 aattagattt tgcataaaaa acagactaca taatactgta aaacacaaca tatccagtca      120
101 ctatg                                                                 125
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 4
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Factor Xa cleavage site
112 <400> SEQUENCE: 7
114 Ile Glu Gly Arg
115 1
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 4
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Thrombin cleavage site
126 <400> SEQUENCE: 8
128 Leu Val Pro Arg
129 1
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 27
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: attB0
140 <400> SEQUENCE: 9
141 agcctgcttt tttatactaa cttgagc                                         27
144 <210> SEQ ID NO: 10
145 <211> LENGTH: 27
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[handwritten annotations: "Same error" pointing to attL1 (line 80); "Same error" pointing to attR1 (line 94); "Same error" pointing to attB0 (line 138)]

RAW SEQUENCE LISTING   DATE: 03/19/2007
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Input Set : **N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt**
Output Set: **N:\CRF4\03192007\J618852.raw**

```
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial
149 <220> FEATURE:
150 <223> OTHER INFORMATION: attP0
152 <400> SEQUENCE: 10
153 gttcagcttt tttatactaa gttggca                          27
156 <210> SEQ ID NO: 11
157 <211> LENGTH: 27
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial
161 <220> FEATURE:
162 <223> OTHER INFORMATION: attL0
164 <400> SEQUENCE: 11
165 agcctgcttt tttatactaa gttggca                          27
168 <210> SEQ ID NO: 12
169 <211> LENGTH: 27
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial
173 <220> FEATURE:
174 <223> OTHER INFORMATION: attR0
176 <400> SEQUENCE: 12
177 gttcagcttt tttatactaa cttgagc                          27
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 27
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial
185 <220> FEATURE:
186 <223> OTHER INFORMATION: attP1
188 <400> SEQUENCE: 13
189 gttcagcttt tttgtacaaa gttggca                          27
192 <210> SEQ ID NO: 14
193 <211> LENGTH: 27
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial
197 <220> FEATURE:
198 <223> OTHER INFORMATION: attL1
200 <400> SEQUENCE: 14
201 agcctgcttt tttgtacaaa gttggca                          27
204 <210> SEQ ID NO: 15
205 <211> LENGTH: 25
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <223> OTHER INFORMATION: attR1
212 <400> SEQUENCE: 15
213 gttcagcttt tttgtacaaa cttgt                            25
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 25
218 <212> TYPE: DNA
```

Same errors 27

```
219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: attB2
224 <400> SEQUENCE: 16
225 acccagcttt cttgtacaaa gtggt                                    25
228 <210> SEQ ID NO: 17
229 <211> LENGTH: 27
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: attP2
236 <400> SEQUENCE: 17
237 gttcagcttt cttgtacaaa gttggca                                  27
240 <210> SEQ ID NO: 18
241 <211> LENGTH: 27
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: attL2
248 <400> SEQUENCE: 18
249 acccagcttt cttgtacaaa gttggca                                  27
252 <210> SEQ ID NO: 19
253 <211> LENGTH: 25
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: attR2
260 <400> SEQUENCE: 19
261 gttcagcttt cttgtacaaa gtggt                                    25
264 <210> SEQ ID NO: 20
265 <211> LENGTH: 22
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: attB5
272 <400> SEQUENCE: 20
273 caactttatt atacaaagtt gt                                       22
276 <210> SEQ ID NO: 21
277 <211> LENGTH: 27
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: attP5
284 <400> SEQUENCE: 21
285 gttcaactttt attatacaaa gttggca                                 27
288 <210> SEQ ID NO: 22
289 <211> LENGTH: 24
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial
```

Same errors (handwritten annotation)

RAW SEQUENCE LISTING   DATE: 03/19/2007
PATENT APPLICATION: US/10/618,852 TIME: 14:33:19

Input Set : **N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt**
Output Set: **N:\CRF4\03192007\J618852.raw**

```
293 <220> FEATURE:
294 <223> OTHER INFORMATION: attL5
296 <400> SEQUENCE: 22
297 caactttatt atacaaagtt ggca                                    24
300 <210> SEQ ID NO: 23
301 <211> LENGTH: 25
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial
305 <220> FEATURE:
306 <223> OTHER INFORMATION: attR5
308 <400> SEQUENCE: 23
309 gttcaacttt attatacaaa gttgt                                   25
312 <210> SEQ ID NO: 24
313 <211> LENGTH: 22
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial
317 <220> FEATURE:
318 <223> OTHER INFORMATION: attB11
320 <400> SEQUENCE: 24
321 caacttttct atacaaagtt gt                                      22
324 <210> SEQ ID NO: 25
325 <211> LENGTH: 27
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial
329 <220> FEATURE:
330 <223> OTHER INFORMATION: attP11
332 <400> SEQUENCE: 25
333 gttcaacttt tctatacaaa gttggca                                 27
336 <210> SEQ ID NO: 26
337 <211> LENGTH: 24
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: attL11
344 <400> SEQUENCE: 26
345 caacttttct atacaaagtt ggca                                    24
348 <210> SEQ ID NO: 27
349 <211> LENGTH: 25
350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial
353 <220> FEATURE:
354 <223> OTHER INFORMATION: attR11
356 <400> SEQUENCE: 27
357 gttcaacttt tctatacaaa gttgt                                   25
360 <210> SEQ ID NO: 28
361 <211> LENGTH: 22
362 <212> TYPE: DNA
363 <213> ORGANISM: Artificial
365 <220> FEATURE:
```

Same errors

See item

 # 11 on

error summary sheet

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/19/2007
PATENT APPLICATION: US/10/618,852   TIME:. 14:33:20

Input Set : **N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt**
Output Set: **N:\CRF4\03192007\J618852.raw**

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43

VERIFICATION SUMMARY   DATE: 03/19/2007
PATENT APPLICATION: **US/10/618,852**   TIME: 14:33:20

Input Set : **N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt**
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